

# ICD-O 3<sup>rd</sup> Edition

Theressia C. Mitchell, RHIT, CTR  
Assistant Program Director  
Arkansas Central Cancer Registry  
February 12, 2008



# Acknowledgments

 Arkansas Central Cancer Registry



# ICD-O 3<sup>rd</sup> Edition











## CAMP COURSE ICD-O-3



# ICD-O 3<sup>rd</sup> Edition





## OUTLINE

-  A. Why ICD-O 3
-  B. Format of ICD-O 3 manual
  -  Instructions
  -  Structure & format
  -  Alphabetic index
-  C. Topography
-  D. Morphology
-  E. Rules



# ICD-O 3<sup>rd</sup> Edition







## Why ICD-O

-  Uniform site/type categories
-  Data comparisons worldwide
-  Need to know for Certified Tumor Registrar Certification examination
-  Used for cases diagnosed 1/1/2001 forward



# ICD-O 3<sup>rd</sup> Edition

## ICD-O-3 Manual Format

-  Instructions
-  Structure and Format of ICD-O-3
-  Numerical list for Topography
-  Numerical list for Morphology
-  Alphabetic Index
-  Principal Rules



# ICD-O 3<sup>rd</sup> Edition

## Topography

 Site of origin

 Structure

### Structure of Topography Code

C \_\_\_\_ . \_\_\_\_  
Site      subsite

Example C50.2

↑      ↑

Breast , Upper inner  
quadrant



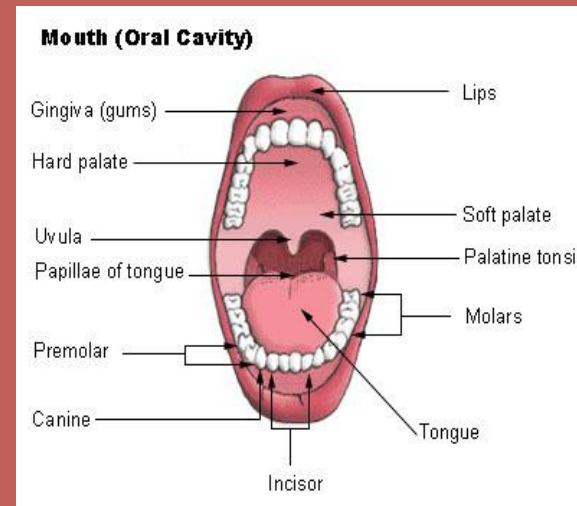
# ICD-O 3<sup>rd</sup> Edition

## C03.9

Decimal point subdivision of 3-digit number

**BOLD TYPE** preferred term

Synonyms are indented





# ICD-O 3<sup>rd</sup> Edition

## Morphology

 Type of cell

 Cancer and  
Carcinoma

 Behavior

<b>4 digits</b>	<b>cell type (histology)</b>
<b>1 digit</b>	<b>behavior</b>
<b>1 digit</b>	<b>grade, differentiation or phenotype</b>



# ICD-O 3rd Edition

## Meaning

 C 3 4 . 2

 ↑

 Primary ↑

 Subsite





8 0 7 0 / 3 2

↑

Cell type







Behavior↑

Differentiation↑



# ICD-O 3rd Edition




## Meaning

	<u>C 3 4. 2</u>	<u>8 0 7 0 / 3 2</u>
	Lung↑    ↑	↑
	Middle lobe	Squamous
		cell
		carcinoma
		Invasive↑
	Moderate differentiation↑	



# ICD-O 3rd Edition

## Alphabetic Index

-  Topography (anatomical sites)
-  Morphology (histologic terms)
-  Tumor-like lesions and conditions



# ICD-O 3rd Edition



## How to Code



Break phrase into topography and morphology



Look up morphology first



Look up unusual term first



Use up all the words in the phrase



Add 5<sup>th</sup> and 6<sup>th</sup> digit codes



Look up topography



# ICD-O 3rd Edition



## Rule A

### Topographic regions and ill-defined sites




If the diagnosis does not specify the tissue of origin, use the appropriate tissues suggested in the alphabetic index for each ill-defined site in preference to the “NOS” category.



# ICD-O 3rd Edition

## Invasive carcinoma of the leg

### C76.5

-  Skin of the leg
-  Soft tissue of the leg
-  Bone of the leg

## Amelanotic melanoma

## Sarcoma and lipoma

### C49.2

### C40.2 osteosarcoma/chondrosarcoma



# ICD-O 3rd Edition

**Rule B - Prefixes:** If a topographic site is modified by a prefix such as peri-, para- or the like, which is not specifically listed in ICD-O, code to the appropriate ill-defined subcategory C76 (ill-defined site), unless the type of tumor indicates origin from a particular tissue.





# ICD-O 3rd Edition

- Periadrenal tissue
- Peripancreatic tissue
- Retrocecal tissue
  - C48.0 – retroperitoneum

“In the area of” the bowel  
C26.0



# ICD-O 3rd Edition

## Rule C

Tumors involving more than one  
topographic category or subcategory

Use subcategory “8” when a single  
tumor overlaps the boundaries of two  
or more categories or subcategories  
and its point of origin cannot be  
determined



# ICD-O 3rd Edition

- C21.8 Overlapping lesion of rectum, anus and anal canal
- C67.8 Overlapping lesion of bladder
- C26.8 stomach and small intestine



# ICD-O 3rd Edition

## Rule D.

Topography codes for lymphomas

If multiple lymph node regions are involved  
by lymphoma, code to C77.8

(lymph nodes of multiple regions)

Code extranodal lymphomas to the site of  
origin, which may not be the site of biopsy

If no site is indicated for a lymphoma, code to  
C77.9 (lymph node, NOS)

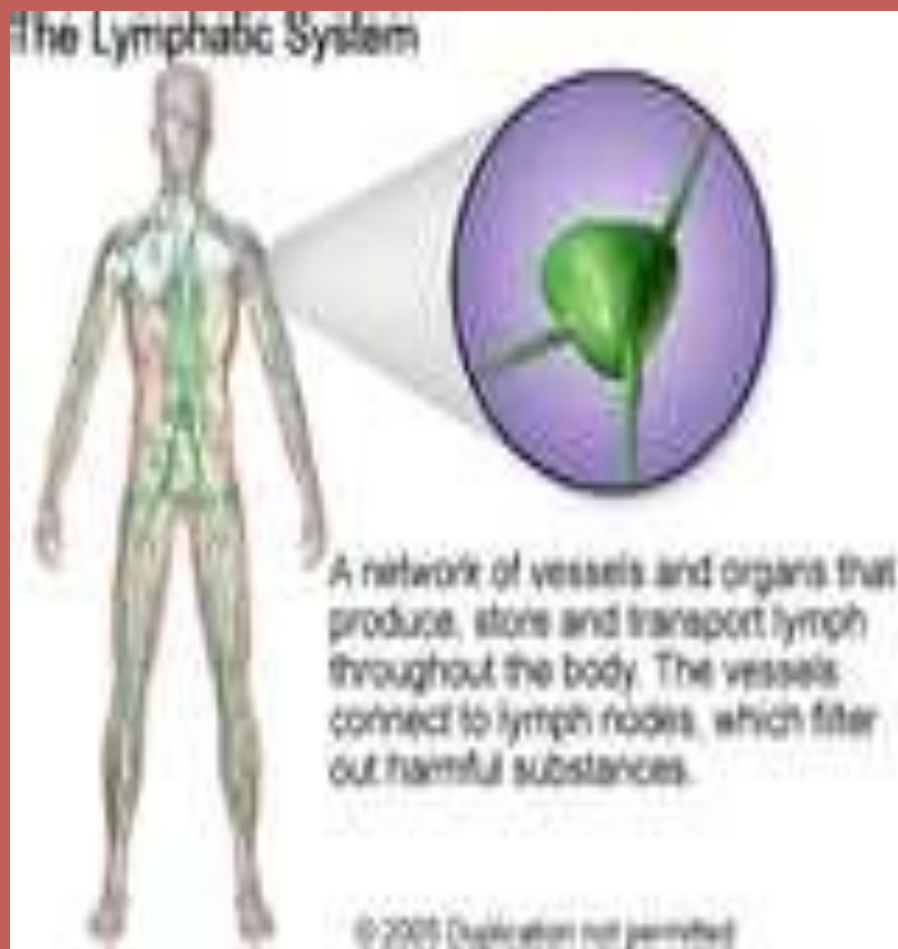


# ICD-O 3rd Edition

9591/3

C16.9

C21.0



# ICD-O 3rd Edition

## Rule E

Code all leukemias except myeloid sarcoma (9930/3) to C42.1 (bone marrow)



# ICD-O 3rd Edition

## Rule F

Behavior code in morphology

Use the appropriate 5<sup>th</sup> digit behavior code even if the exact term is not listed in ICD-O



# ICD-O 3rd Edition

## Rule F (continued)

### Behavior code in morphology (5<sup>th</sup> digit)

- /0 Benign
- /1 Uncertain whether benign or malignant; borderline
- /2 In situ; non-invasive
- /3 Malignant; invasive
- /6 Malignant; metastatic site
- /9 Malignant, uncertain whether primary or metastatic site





# ICD-O 3rd Edition

## Rule G

Grading or differentiation code

Assign the highest grade or  
differentiation code described in the  
diagnostic statement



# ICD-O 3rd Edition



## Rule G (continued)

### Grading or differentiation code (6<sup>th</sup> digit)

1	Grade I	Well differentiated		
		Differentiated, NOS		
2	Grade II	Moderately differentiated	} Solid tumors	
		Moderately well differentiated		
		Intermediate differentiated		
		Low grade		
3	Grade III	Poorly differentiated		
		Medium		
4	Grade IV	Undifferentiated		
		Anaplastic		
		High grade		
5	T-cell		} leukemias & lymphomas	
6	B-cell			
7	Null-cell			
8	NK-cell			
9	Grade or differentiation not determined, not stated; cell type not determined; not applicable			

# ICD-O 3rd Edition

## Rule G (continued)

### Same code

- Squamous cell carcinoma, grade II
- Squamous cell carcinoma, moderately well differentiated
- 8070/32
- MD SCC with PD areas
- 8070/33
- Anaplastic SCC
- 8070/34



# ICD-O 3rd Edition

## Rule G (continued)

The same 6<sup>th</sup> digit column may be used to denote cell lineage for leukemias and lymphomas but...

9680/3



# ICD-O 3rd Edition

## Rule H

### Site-associated morphology terms

Use the topography code provided  
when a topographic site is not stated  
in the diagnosis

This topography code should be  
disregarded if the tumor is known to  
arise at another site.



# ICD-O 3rd Edition

Compound morphology diagnosis  
Rule J.

Change the order of the word roots in a  
compound term if the term is not  
listed in ICD-O-3

“Myxofibrosarcoma”



# ICD-O 3rd Edition

## Rule K

### Coding multiple morphology terms

When no single code includes all diagnostic terms, use the numerically higher code number if the diagnosis of a single tumor includes two modifying adjectives with different code numbers



# ICD-O 3rd Edition

Rule K (continued)

Mucinous cystadenoma/Papillary  
serous cystadenoma

8460/3

Transitional cell epidermoid carcinoma

8120





# ICD-O 3rd Edition

## Multiple Primary Neoplasms Rules Page 35

### 2007 Multiple Primary & Histology Rules



# ICD-O 3rd Edition

## Camp Course ICD-O-3 Concludes

